



WATER MANAGEMENT MONTHLY REPORT

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RESERVOIR OPERATION AND SYSTEM STATUS FOR MARCH 2004

HIGHLIGHTS – Cairo stage began the month at 25.9 feet and ended at 30.5 feet and rising slowly. The stage crested at 45.4 feet on the 12th. Flood stage is 40.0 feet. Flooding was a result of heavy rains on the 6th of April and from middle Mississippi River flooding.

WEATHER –The weather during March was warm with varied precipitation. Temperatures averaged 1 ½ to 4 degrees above normal for the month. Precipitation was somewhat more widespread during March than February, but still remained generally below normal. However, some areas did observe above normal rainfall primarily in northern Indiana, Illinois northern Ohio and along the Ohio River from eastern Kentucky to northern West Virginia. The driest areas were Tennessee, western Kentucky, North Carolina and Virginia.

TEMPERATURE AND PRECIPITATION – MARCH 2004

	TEMPERATURE		PRECIPITATION	
STATION	OBSERVED DEGREES F	DEPARTURE FROM NORMAL	OBSERVED INCHES	DEPARTURE FROM NORMAL
Pittsburgh, PA	42.7	+2.9	3.60	+0.43
Charleston, WV	48.0	+2.7	4.45	+0.55
Columbus, OH	43.5	+1.5	3.27	+0.38
Cincinnati, OH	45.4	+1.5	2.97	-0.93
Louisville, KY	49.0	+2.1	4.80	+0.39
Indianapolis, IN	45.4	+3.7	4.33	+0.89
Evansville, IN	49.2	+3.4	2.17	-2.12
Nashville, TN	53.3	+3.2	4.81	-0.06

STREAMFLOW -- Ohio River monthly average flows for March ranged from a low of 76 percent of normal at Evansville, IN to a high of 119 percent of normal at Pittsburgh, PA. Daily flows ranged from a low of 36 percent of normal at Evansville, IN to a high of 265 percent of normal at Pittsburgh, PA.

The following table presents the flow data summary for March at the Ohio River Index Stations:

FLOW DATA – MARCH 2004

STATION	AVERAGE MONTHLY FLOW	PERCENT LONG-TERM NORMAL		
		MONTHLY	DAILY	
	CUBIC FEET/SECOND		HIGH	LOW
Pittsburgh, PA	81,900	119	265	45
Huntington, WV	150,000	91	198	43
Cincinnati, OH	185,000	87	175	40
Louisville, KY	218,000	87	162	41
Evansville, IN	226,000	76	140	36
Paducah, KY	402,000	77	128	43

RESERVOIRS -- March began with 2.1% utilization of the total system flood control storage and ended the month at 3.5%. System-wide augmentation storage started at 99.1% at the beginning of the month and was at 97.5% by the end of the month. Significant flood storage utilization in excess of 25 percent occurred at a number of projects during the month; Union City, Mahoning Creek, Conemaugh, Tygart, Youghiogheny, Berlin, Mosquito Creek and Martins Fork. No project utilized in excess of 50 percent of flood control storage.

The following table depicts storage change by tributary reservoir subsystem for March:

CHANGE IN STORAGE TRIBUTARY-RESERVOIR SUBSYSTEM	(ACRE-FEET)
Allegheny-Monongahela-Beaver	+339,100
Muskingum-Little Kanawha-Hocking-Kanawha-Guyandotte	+46,600
Twelvepole-Big Sandy-Little Sandy-Scioto	+14,900
Little Miami-Licking-Mill Creek-Great Miami	+44,900

Kentucky-Salt-Green-Wabash	+195,600
Cumberland	+191,400
TOTAL	+832,500

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